## CLAIMS

What is claimed is:

- 1) A method for extending the effective period during which tissue treated with a clostridial toxin is paralyzed comprising: contacting said tissue with a composition comprising an agent able to prevent the neuroregenerative activity of a polypeptide selected from the group consisting of: IGF I, IGF II, cilary neurotrophic factor, NT-3, NT-4, brain-derived neurotrophic factor, leukemia inhibitory factor, tenascin-C, ninjurin, neural cell adhesion molecule, and neural agrin.
- 2) The method of claim 1 wherein said contacting step occurs at the same time as said tissue is treated with said clostridial toxin.
- 3) The method of claim 1 wherein said contacting step occurs prior to treatment of said tissue with said clostridial toxin.
- 4) The method of claim 1 wherein said clostridial toxin comprises BoNT.
- 5) The method of claim 1 wherein said clostridial comprises BoNT/A.
- 6) The method of claim 1 wherein said agent is selected from the group consisting of:
- a) an antibody able to selectively bind said polypeptide,

- b) a competitive inhibitor of said polypeptide,
- a compound able to selectively prevent the expression of a gene encoding said polypeptide,
- d) a binding protein other than an antibody, and
- e) a ribozyme,
- a nucleic acid encoding an inactive growth factor receptor able to bind said growth factor.
- 7) The method of claim 6 wherein said agent is an antibody able to selectively bind said polypeptide.
- 8) The method of claim 6 wherein said agent is a competitive inhibitor of said polypeptide.
- 9) The method of claim 6 wherein said agent is a compound able to prevent the expression of a gene encoding said polypeptide.
- 10) The method of claim 6 wherein said agent is a binding protein other than an antibody.
- 11) The method of claim 9 wherein said polypeptide is selected from the group consisting of IGF I and IGF II, and said binding protein is selected from the group consisting of IGF-BP4 and IGF-BP5.
- 12) A method for stimulating the outgrowth of neural sprouts from damaged neural tissue comprising: contacting said tissue with a composition comprising a polypeptide which comprises a neurotropically active domain derived from an agent selected from the group consisting of IGF I,

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- IGF II, cilary neurotrophic factor, NT-3, NT-4, brainderived neurotrophic factor, leukemia inhibitory factor, tenascin-C, ninjurin, neural cell adhesion molecule, and neural agrin.
- 13) The method of claim 11 wherein said agent comprises  $IGF\ I$  .
- 14) The method of claim 11 wherein said agent comprises IGF II.
- 15) The method of claim 11 wherein said agent comprises NT-3.
- 16) The method of claim 11 wherein said agent comprises ciliary neurotrophic factor.
- 17) The method of claim 11 wherein said agent comprises NT-3.
- 18) The method of claim 11 wherein said agent comprises NT-4.
- 19) The method of claim 11 wherein said agent comprises brain-derived neurotrophic factor.
- 20) The method of claim 11 wherein said agent comprises leukemia inhibitory factor.
- 21) The method of claim 11 wherein said agent comprises tenascin-C.

- 22) The method of claim 11 wherein said agent comprises ninjurin.
- 23) The method of claim 11 wherein said agent comprises neural-cell adhesion molecule.
- $\ensuremath{\text{24}}\xspace$  The method of claim 11 wherein said agent comprises neural agrin.